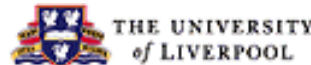


A Middleware Registry for the Discovery of Collections and Services



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Outline



- Purpose of JISC Information Environment Service Registry (IESR)
- IESR content description
- IESR services
- Using IESR
- The future

Why IESR?

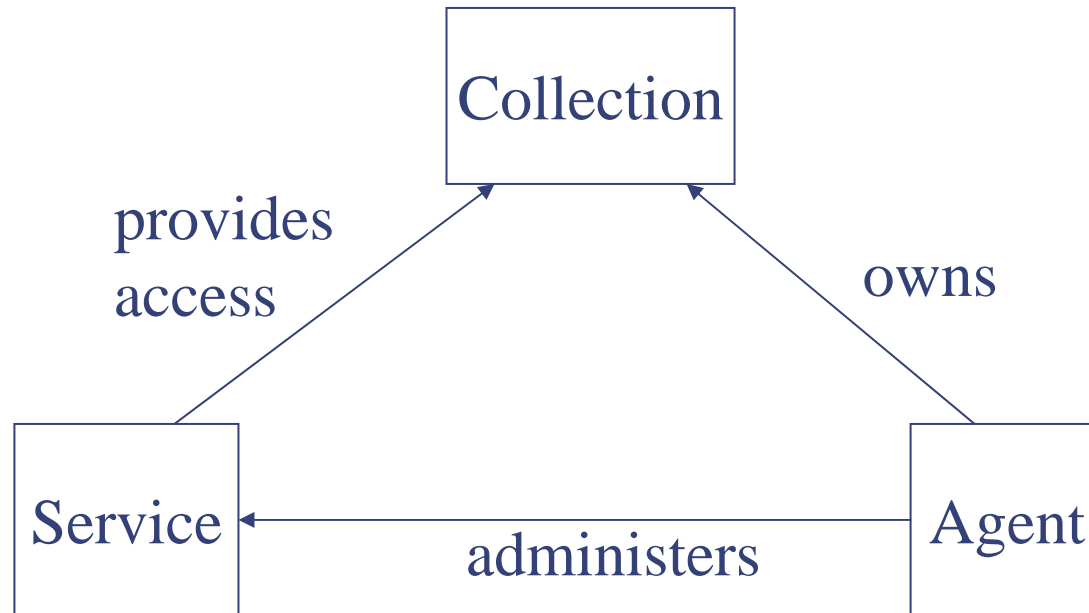


- JISC Information Environment:
 - Collections of resources for researchers, learners, teachers in UK
- Single central registry – m2m access
 - Improve awareness and access
- Funded by JISC:
 - MIMAS, UKOLN, University of Liverpool
 - Registry developed and hosted by MIMAS

IESR Content

- Descriptions of:
 - Collections of resources
 - Informational Services that provide access
 - Agents: Owners / Administrators
 - Transactional Services
- Supplied by resource providers
- Check by IESR content manager

IESR Entities



IESR Entity Description

- Entities identified with URI
- Described by metadata
- Based on open standards
- IESR terms defined in IESR namespace
- Metadata defined by Application Profile
 - Semantics
 - Occurrence
 - Searchable

IESR Collection Metadata



- Based on RSLP Collection Description
- Simplification for electronic resources
- Consistent with DCMI Collection Description Application Profile

Vocabulary Encoding Schemes



- Defined in Application Profile
- Single backbone subject scheme
 - Dewey Decimal Classification System
- Other common vocabularies supported
- `iesr:usesControlledList`
 - IESR defined list (extensible)
 - terminology service; item level search

Title: ESDS International Macro data

Collection Id: <http://purl.org/poi/iesr.ac.uk/1084445753-12967>

Coll Description: ESDS International provides web based access to a range of macro-economic datasets. Macro data are data aggregated to a country or regional level. The macro databanks in ESDS International all contain socio-economic time series data for a range of countries over a substantial time period. Many of the databanks are the current releases of the major statistical publications produced by intergovernmental organisations such as the World Bank, International Monetary Fund or United Nations. Topics covered include national accounts, industrial production, employment, trade, demography, human development and other indicators of national performance and development.

Collection Type: Collection.Dataset.Subject.

Format: Data available for download in Beyond 20/20 WDS is available in *.csv, *.ivt or *.xls format. Data available for download in SearchNS is available in Space separated, Comma separated, SPSS, SAS and minitab.

Language: en

Coll hasService: <http://purl.org/poi/iesr.ac.uk/1084445480-10955>

Coll Copyright: Copyright information is available for each separate dataset within the collection.

Coll Use Rights: During the online ESDS registration process users have to agree to the following end user licence before being allowed access to the data: http://www.esds.ac.uk/registration/licence_idr.asp

Coll Access: Available to UK FE and HE. Conditionally free. Registration required.

Subject (HASSET): Economics; Industry and Management; Social Structure and Stratification; Employment and Labour

Spatial (HASSET): Africa; America; Arab Countries; Asia; Atlantic Ocean Territories; Australasia; Commonwealth; Europe; Indian Ocean Territories; Mediterranean Countries; Oceania; Western Hemisphere

Temporal: 1948/

Uses CtrlId List: LOCAL

Coll Owner: <http://purl.org/poi/iesr.ac.uk/1084445246-9103>

Coll isPartOf: <http://www.esds.ac.uk/>

hasAssociation: <http://www.esds.ac.uk/International/access/micro.asp>

hasPublication: <http://www.esds.ac.uk/International/access/macro.asp>

IESR Service Metadata

- More than RSLP CD 'locator'
- Bespoke IESR scheme, uses open standards
- Single access method:
 - Z39.50, SOAP, OAI-PMH, Web/CGI
- Location URL
- Interface property for some service types

Rights: <http://creativecommons.org/licenses/by-nc-sa/2.0/uk/>
Rights: This IESR administrative metadata must always be retained with its associated entity description.

Service: 3
Service Title: SOSIG Internet Resource Catalogue Z39.50
Service Id: <http://purl.org/poi/iesr.ac.uk/1084526746-17952>
Service Location: [z3950s://sosig.ac.uk:2104/sosig](http://purl.org/poi/iesr.ac.uk/1084526746-17952)
Service Interface: <http://iesr.ac.uk/registry/intf/zeerex/1084526746-17952-zc.xml>
Access Method: z3950
Access Control: None
Service Help: http://www.sosig.ac.uk/about_us/connect.html
Svc Administrator: <http://purl.org/poi/iesr.ac.uk/1084526500-15966>
Serves: <http://purl.org/poi/iesr.ac.uk/1084527323-22034>; <http://purl.org/poi/iesr.ac.uk/1084527337-22125>

About: <http://purl.org/poi/iesr.ac.uk/1084526746-17952>
Supplier: RDN: <http://purl.org/rdn/>
Publisher: JISC Information Environment Service Registry (IESR): <http://iesr.ac.uk>
Metadata Date: 2004-05-14
Rights: <http://creativecommons.org/licenses/by-nc-sa/2.0/uk/>
Rights: This IESR administrative metadata must always be retained with its associated entity description.

Service: 4
Service Title: SOSIG Internet Resource Catalogue Open Archive
Service Id: <http://purl.org/poi/iesr.ac.uk/1084526719-17787>
Service Location: <http://www.sosig.ac.uk/oaicat/servlet/OAIHandler?verb=Identify>

Other Service types



- SOAP:
 - Locator: access URL
 - Interface: WSDL
- OAI-PMH:
 - Locator: BaseURL
 - Interrogate service (Identify) for details
- OpenURL: Locator: BaseURL
- Web CGI: Interface: arguments
- Web page: Locator: URL

IESR Agent and Administrative Metadata



- Agent: contact details
- Administrative:
 - Included with every entity
- IESR includes:
 - creating organisation, publisher: IESR
 - latest modification date
 - rights to reuse descriptions:
Creative Commons

IESR Services

- Z39.50
 - Search via Bib-1
 - SUTRS; XML
- OAI-PMH for harvesting
- Web Services SOAP (planned)
 - SRW; NISO VIEWS
- RSS (later)
- UDDI (under investigation)
- Web Search and Browse

IESR XML

- Composite Collection record via Z39.50:
 - Collection
 - All services that provide access
 - All agents:
 - Owners of collection
 - Administrators of services
- Single entity record via OAI-PMH
- Simple Dublin Core for Interoperability

Using IESR



- Portal
 - amalgamated set of resources
- Metasearch on behalf of user
 - Social Science portal discovers collections
 - Provides cross-search to end-user
 - Portal could provide dataset search
 - Portal builder doesn't need to know about all resources
 - Users discover collections unaware of

Using IESR



- Portal: Harvest IESR records
 - Local service registry
 - Knowledgebase (convert to appropriate format)
 - Local configuration file
- Portal: Link to Web Search - general resource discovery
- RSS Aggregator:
 - news feeds; data alerts
- Reuse collection description

Distributed Service Registries



- Scope of IESR
 - JISC, UK, international?
 - Data ownership and maintenance
- Distributed model
 - Each node describes own resources
 - How to cross search?
- Sharing collection descriptions
 - Need common metadata schema
- IESR collaboration with OCKHAM in US

IESR Future

- Current phase until July 2006
- More and updated content
- New IESR services
- Demonstrating viable IESR use
- Maintenance of metadata schema
 - Practical application of collection description
- Persistence of content

IESR Details

Specifications: <http://iesr.ac.uk/metadata/>

Application Profile: <http://iesr.ac.uk/profile/>

XML Schema: <http://iesr.ac.uk/profile/xsd/iesr.xsd>

Web Search IESR: <http://iesr.ac.uk/registry/>

Z39.50 service: <http://iesr.ac.uk/use/z3950/>

OAI-PMH service: <http://iesr.ac.uk/use/oaipmh/>

IESR Helpline service: iesr@mimas.ac.uk

Ann Apps: ann.apps@manchester.ac.uk